Mitchell Burk

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EXPERIENCE

Purdue University Northwest
MAR. 2020 - AUG 2021

Machine Learning Researcher

- Using word2vec on the COVID-19 Open Research Dataset *(Python, TensorFlow, word2vec, Ubuntu, NLTK)*
- Research in visualizing multi-dimensional word embeddings*(TensorFlow, vec2graph, Reinforcement Learning, DNN/CNN)*
- Assisted in various other tasks when asked of me such as account creation, automation, etc.

Purdue University Northwest
SEPT 2018 - NOV 2019

Security Specialist

- Responded to incidents involving *spam/phishing emails, compromised accounts, suspicious network activity*
- Wrote code to parse unorganized reports *(Python, Pandas, Anaconda)*
- Record keeping of weekly firewall reports and malware scans *(Checkpoint, Malwarebytes, McAfee)*
- Assisted in the creation of weekly "Security Tips" sent out to all faculty, staff, and students

All Information Services Inc. (AIS)
MAY 2017 - AUG 2017

Junior Network Analyst

- Installed networking equipment for a public school district *(Access Points, Switches, Racks)*
- Organized data closets
- Assisted with Cisco Switch configuration

PROJECTS

Registration Of Users To High-Performance Cluster
JAN 2021 - MAY 2021

- Registered and managed required individuals to a private high-performance cluster for machine learning purposes *(Linux)*
- Communicated with the high-performance cluster team for troubleshooting

Automating Software Installation & Configuration
JAN 2021 - MAY 2021

- Created bash script that would pull software installations, give executable permissions, and install/configure software for all users
  (Linux, Bash)

Creating And Deploying Custom Python Environments
JAN 2021 - MAY 2021

- Created custom python environments that would install various libraries for a class of 30 students
- Environments were then deployed to the users with a script for installation *(Python, Anaconda, Linux, Bash, TensorFlow)*

Data Analysis And Visualization
DEC 2019

- Parsed an XML document using Python to visualize data *(Python, Pandas, Matplotlib, XML, GitHub)*

Ransomware Creation
FALL 2018

- Created a basic ransomware program that would attack a Linux virtual machine *(Python, Linux, VMware, GitHub)*
- Would prompt victim machine for a password. If the wrong password was entered, the system would be deleted *(Python, Linux, VMware, Security, Encryption)*

ACADEMIC ACCOMPLISHMENTS

Dean's List
Acquired:
Fall 16, Spring 17, Fall 17, Spring 18, Fall 18, Spring 19, Fall 19, Spring 20

Semester Honors
Acquired:
Fall 16, Spring 17, Fall 17, Spring 18, Fall 18, Spring 19, Spring 20

EDUCATION

Purdue University Northwest
AUG 2016 - MAY 2020
GPA: 3.71 (CUM LAUDE)

Bachelor's
Computer Information Technology

SKILLS

Python, Linux, Security, Pandas, Automation, GitHub, Bash, MySql, C, JavaScript, Django, Splunk